AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 09/883,790 Filing Date: June 18, 2001

Title: COMPOSITE SOFTBALL BAT



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CLEAN VERSION OF AMENDED CLAIMS

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1. (Once amended) A bat comprising:

a hitting surface;

a handle element attached to the hitting surface; and

a sleeve positioned within the hitting surface, wherein the hitting surface and the sleeve are comprised of composite materials;

wherein the hitting surface is made from a first set of fibers and a first resin and wherein the sleeve is made from a second set of fibers and a second resin, the second set of fibers and the second resin being different than the first set of fibers and first resin.

- 2. The bat of claim 1 wherein the hitting surface has a first stiffness and the sleeve positioned within the hitting surface has a second stiffness different than the first stiffness.
- 3. The bat of claim 1 wherein the hitting surface has a first stiffness and the sleeve positioned within the hitting surface has a second stiffness different than the first stiffness, wherein the second stiffness is approximately 3 times the stiffness of the first stiffness.
- 5. The bat of claim 4 wherein the first set of fibers includes a tubular sock.
- 6. The bat of claim 4 wherein the second fiber and resin is impregnated in the second set of fibers.
- 7. The bat of claim 6 wherein the second fiber and second resin is an E-glass fiber impregnated resin.
- 8. The bat of claim 4 wherein the second set of fibers and resin is a sheet of material.

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9.(Withdrawn) A method of forming a bat comprising:

forming a tubular hitting surface;

forming a sleeve from composite material; and

fitting the sleeve within the tubular surface.

10.(Withdrawn) The method of claim 9 wherein the step of fitting the sleeve within the tubular surface comprises force fitting the sleeve within the tubular hitting surface.

The method of claim 9 wherein the step of forming a sleeve from 11.(Withdrawn) composite material comprises laying up a plurality of layers of material.

The method of claim 11 wherein laying up a plurality of layers of material 12.(Withdrawn) further comprises laying up a first layer of material and a second layer of material at different angles.

13.(Withdrawn) The method of claim 11 wherein laying up a plurality of layers of material further comprises laying up a first layer of material and a second layer of material at different angles, wherein the angles of laying up are varied to change the nodes of vibration within the bat.

14.(Withdrawn) The method of claim 9 wherein the step of forming a sleeve from composite material comprises:

laying up a plurality of layers of material; and wrapping the plurality of layers about a mandrel.

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15.(Withdrawn) The method of claim 9 wherein the step of forming a sleeve from composite material comprises:

laying up a plurality of layers of material; wrapping the plurality of layers about a mandrel; and wrapping tape over the plurality of layers about the mandrel.

16.(Withdrawn) The method of claim 14 wherein the step of wrapping tape includes: wrapping a first layer of tape to produce a release layer; and wrapping a second layer of tape to produce a strength layer.